LiPo/LiIo/LiFe

NiMH Sensitivity

NiCd Sensitivity D. Peak Default

Temp Select Temp Cut-Off 80C

Saftey Timer NN 180min

Capacity Cut-Off

Input Power Low

Waste Time CHG>DCHG

Key Beer

Cut-Off

CHK Time 10min

D. Peak Default

INSTRUCTION MANUAL | BEDIENUNGSANLEITUNG | MANUEL D'UTILISATION | MANUALE DI ISTRUZIONI

Il instructions, warranties and other collateral documents are subject to change at the sole discretion of Horizon Hobby, LLC, For up-to-date product literature, visit horizonhobby.com and click on the support tab for this product.

The following terms are used throughout the product literature to indicate various

levels of potential harm when operating this product

NOTICE: Procedures, which if not properly followed, create a possibility of physical property damage AND a little or no possibility of injury.

CAUTION: Procedures, which if not properly followed, create the probability of physical property damage AND a possibility of serious injury

WARNING: Procedures, which if not properly followed, create the probability of property damage, collateral damage, and serious injury OR create a high probabil

WARNING: Read the ENTIRE instruction manual to become familiar with warning: Read the ENTIRE INSULCION I Manda to Social the features of the product before operating. Failure to operate the product the features of the product before operating. Failure to operate the product the features of correctly can result in damage to the product, personal property and cause

This is a sophisticated hobby product. It must be operated with caution and common sense and requires some basic mechanical ability. Failure to operate this Product in a safe and responsible manner could result in injury or damage to the product or other property. This product is not intended for use by children without direct adult supervision. Do not attempt disassembly, use with Horizon Hobby, LLC. This manual contains instructions for safety, operation and maintenance. It is essential to read and follow all the instructions and warnings in

• Always charge in a well-ventilated area. the manual, prior to assembly, setup or use, in order to operate correctly and avoid

• Always terminate all processes and contact Horizon Hobby if the product malfunctions. damage or serious injury

Age Recommendation: Not for children under 14 years. This is not a toy. or mental capabilities, or lack of experience and knowledge, unless they have

This appliance is not intended for use by persons with reduced physical, sensory been given supervision or instruction concerning use of the appliance by a person

SAFETY PRECAUTIONS AND WARNINGS

WARNING: Failure to exercise caution while using this product and comply with the following warnings could result in product malfunction, electrical issues, excessive heat, FIRE, and ultimately injury and property damage.

Never leave the power supply, charger and battery unattended during use Never attempt to charge dead, damaged or wet battery packs.

 Never attempt to charge a battery pack containing different types of batteries. Never allow children under 14 years of age to charge battery packs. Never charge batteries in extremely hot or cold places or place in direct sunlight.

 Never charge a battery if the cable has been pinched or shorted. Never connect the charger if the power cable has been pinched or shorted. Never connect the charger to an automobile 12V battery while the vehicle is run-

Never attempt to dismantle the charger or use a damaged charger.

Never attach your charger to both an AC and a DC power source at the same time

 Never connect the input jack (DC input) to AC power Always use only rechargeable batteries designed for use with this type of charger.

· Always inspect the battery before charging.

• Always keep the battery away from any material that could be affected by heat. • Always monitor the charging area and have a fire extinguisher available at all times. Always end the charging process if the battery becomes hot to the touch or starts

to change form (swell) during the charge process Always connect the charge cable to the charger first, then connect the battery to avoid short circuit between the charge leads. Reverse the sequence when

 Always connect the positive red leads (+) and negative black leads (-) correctly. incompatible components or augment product in any way without the approval of

• Always disconnect the battery after charging, and let the charger cool between

WARNING: Never leave charger unattended, exceed maximum charge rate, charge with non-approved batteries or charge batteries in the wrong mode. Failure to comply may result in excessive heat, fire and serious injury.

CAUTION: Always ensure the battery you are charging meets the specifications of this charger and that the charger settings are correct. Not doing so can result in excessive heat and other related product malfunctions, which can lead to user injury or property damage. Please contact Horizon Hobby or an authorized retailer with compatibility questions.

OPERATING YOUR CHARGER

16 LEAD-ACID/SEALED-LEAD-ACID (PB) BATTERIES

When the charger is powered ON, there is a series of self tests and the screen will After self tests, the charger shows another screen (information may vary).

main menu.

SELF TEST AND PROGRAM SELECT SCREENS 12 NICKEL-CADMIUM (NI-CD) BATTERIES

13 NI-CD CHARGING

17 PB CHARGING

USER SETTINGS

19 SAVE DATA

20 LOAD DATA

18 PB DISCHARGING

14 NI-CD DISCHARGING

15 NI-CD CYCLE CHARGING

JST XH Balance adapter Banana plug to EC3[™] battery connector AC power cord (one region-US, EU, AU or UK)

OPTIONAL ACCESSORIES

TABLE OF CONTENTS

LITHIUM BATTERIES

LITHIUM BALANCING CHARGING

LITHIUM STORAGE CHARGING

NICKEL-METAL HYDRIDE (NI-MH) BATTERIES

SELF TEST AND PROGRAM SELECT SCREENS

DYNAMITE

|DYNC2015

show the charger brand name and model number.

LITHIUM FAST CHARGING

LITHIUM DISCHARGING

NI-MH CHARGING

10 NI-MH DISCHARGING

11 NI-MH CYCLE CHARGING

DYN4012 - DC Power Cord **DYN5006** - Charge Adapter Banana to Deans Male

DYN5014 - Charge Adapter: Banana to Traxxas® Male

DYN5033 - Temperature Sensor

AC Input Voltage | 100–240V AC (50–60Hz)

DC Input Voltage 11-18V DC Charge Current | 0.1A to 6.0A (in 0.1A increments/80W maximum)

Discharge Current | 0.10 to 2.0A (in 0.1A increments/10W maximum) Operating Temperature | 0° C to + 50° C

Balance Current Drain | 300mA per cell

Charging Mode Ni-Cd/Ni-MH: Peak; Li-Po/Li-lon/Li-Fe/Pb: CC/CV

21 PROGRAM SELECT USER SET

g SAFETY TIMER

22 USB DEVICE CHARGING

23 TROUBLESHOOTING

PROGRAM SELECT

From any screen, press the Battery Type/Memory Button (H) to go back to the

a LITHIUM BATTERY TYPE

b LITHIUM BATTERY CHECK TIME

c NI-MH SENSITIVITY (PEAK VOLTAGE)

d NI-CD SENSITIVITY (PEAK VOLTAGE)

f WASTE (BATTERY COOL-DOWN) TIME

i BEEP AND BUZZER SOUND CONTROL

j INPUT POWER LOW VOLTAGE CUTOFF

e BATTERY CUTOFF TEMPERATURE

h BATTERY CAPACITY CUTOFF

Not to scale.

Not all wiring shown

Not all connectors shown

3 LITHIUM CHARGING

the Lithium charge programs will damage the battery or the charger.

Press the **Battery Type/Memory Button (H)** until you reach the 7 main menus.

Press the **Down (–) Button (I)** or **Up (+) Button (J)** to reach the CHARGE screen charge current value

22,2V(6S)

hen press the **Battery Type/Memory Button** until you reach the PROGRAM

and set charging parameters. The charging amperage (A) can be set between 0.1

LiPo CHARGE

A+4.6A

and 6.0A. Voltage (C) is dependent on the number of cells in series (B) and Lithium



A. Power Output Black (-B. Power Output Red (+)

C. Balance Circuit Adapter Board Connector

D. Temperature Sensor Port

E. 2.1A USB Power Output Port F. DC Power Input Port G. AC Power Input Port H. Battery Type/Memory Button

L. LCD Screen

CAUTION: Never connect the AC and DC input cords to an active power source at the same time. This will void the warranty, cause product damage and possibly injure the user.

When Using an External DC Power Source:

1. Connect the DC power cord to the charger **DC Power Input Port (F)**.

I. Down (-) Button

K. Select/Select/Start Button

J. Up (+) Button

2. Connect the DC alligator clips to the DC power source. 2. Connect the AC power cord to the AC power source. 3. When the charger is powered ON, a message will appear on the LCD Screen (L). 3. When the charger is powered ON, a message will appear on the LCD Screen (L)

NOTICE: Always connect cable polarities correctly NOTICE: Always consult 12V battery collateral materials or Horizon Hobby before using with sources other than a standard AC wall outlet.

CAUTION: Always power ON the charger before connecting a battery, or damage to the charger and the battery can result

Connect the charger to the power source

Select the charging settings.

Connect the battery to the charge

· Start battery charging

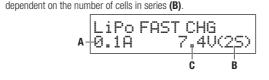
5 LITHIUM FAST CHARGING

Current (CC) mode to Constant Voltage (CV) mode to slowly "top off" the current in the battery pack as close as possible to the maximum capacity. In Fast Charge, the CV mode is eliminated in order to greatly shorten the charging time; however, the CAUTION: The Lithium charge program menus are to be used ONLY for the charging and discharging of Lithium battery packs. Charging other battery types using final capacity of the battery will be less than what you would get using the standard

> Press the **Battery Type/Memory Button (H)** until you reach the 7 main menus. Then press the **Battery Type/Memory Button** until you reach the PROGRAM SELECT Lithium BATT screen. Press the **Select/Start Button (K)** to enter this menu. Press the **Down (-) Button (I)** or **Up (+) Button (J)** to reach the FAST CHG screen and set charging parameters

Near the end of a standard charging cycle the charger switches from Constant

The charging amperage (A) can be set between 0.1 and 6.0A. Voltage (C) is



To select values other than the existing parameters

When Using an External AC Power Source:

1. Connect the AC power cord to the charger **AC Power Input Port (G)**.

 Press the Select/Start Button so the charge current value (A) flashes • Press the **Down (–) Button** or **Up (+) Button** to DECREASE or INCREASE the

charge current value • Press the **Select/Start Button** again to save the value and the voltage value **(C)**

• Press the **Down (–) Button** or **Up (+) Button** to DECREASE or INCREASE the voltage (and # of cells in series (B))

Press the **Select/Start Button** again to save the voltage value

If no parameters are flashing, you can press the **Down (-) Button** or **Increase** Button to select another program such as CHARGE, BALANCE, STORAGE or

To start charging, press and hold the Select/Start Button for 3 seconds

NICKEL-METAL HYDRIDE (NI-MH) BATTERIES

PROGRAM SELECT

PROGRAMMING OUICK GUIDE

LITHIUM BATTERIES (LI-PO)

NI-MH BATTERIES

Ni-Cd BATTERIES

Pb BATTERIES

PROGRAM SELECT NIMH BATT

Press the **Battery Type/Memory Button (H)** to change among main menu screens or to get to these main menu screens from a submenu screen

Press the Decrease (I) or Up (+) Buttons (J) to change between submenu screens or to change (Decrease or Increase) screen values.

22.2V(6S)

22.2V(6S)

19.80(65)

LiPo CHARGE

LiPo BALANCE 5.5A 22.2V

LiPo STORAGE 2.5A 19.8

LiPo FAST CHG 0.1A 7.4V(2S)

LiPo DISCHARGE 5.0A 18.0V(6S)

NiMH CHARGE Man

NIMH DISCHARGE

NiCd CHARGE Man CURRENT 0.1A

MiÇd DISCHARGE

NiCd CYCLE DCHG>CHG

CURRENT

DCHG>CHG

Press the **Select/Start Button (K)** to get to submenus for adjusting operating parameters, to save value changes, or to start chosen battery charging actions

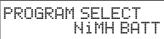
SAVE DATA

USER SET

screens and go to PROGRAM SELECT Ni-MH BATT screen. Press the Select/Start Button (K) to enter this menu. This is the menu in which you set the standard Ni-MH battery charge parameters. Change other Ni-MH battery settings as needed in the USER SET menu. Refer to the

Press the Battery Type/Memory Button (H) to change among the 7 main menu

PROGRAM SELECT USER SET section.



Press the **Down (-) Button (I)** or **Up (+) Button (J)** to go to one of the control screens (CHARGE, DISCHARGE or CYCLE) to do what your battery needs. Correctly connect your Ni-MH battery to the charger. Press the Select/Start Button (K) and adjust charging parameters as needed. Press and hold the **Select/Start Button** (approximately 3 seconds) until the screen changes to start the battery check/charge sequence. After confirmation, charging starts and information will show on the LCD

CHG 022;43 01082 A. A Ni-MH battery pack is charging **B.** Charging rate is 2.0A (2000mAh **C.** Voltage being applied to the battery is currently 7.59V

√NiMH 2.0A 7.59U

PROGRAM-

D. Present charge level of the battery is 1082mAh **E.** Time elapsed since the charge process started is 22:43 During charging, the **Down (-) Button** or **Up (+) Button** can be pressed to show everal parameter messages on the LCD screen including: Ni-MH Sensitivity, Capacity Cut-off, Safety Timer setting, Temperature Cut-off, External Temperature and Input

Power Voltage. The charger signals when the charging (or discharging) process is complete (if Buzzer is set to ON).

Press the **Battery Type/Memory Button** at any time to stop charging (or discharging).

CAUTION: The Ni-MH charge program menus are to be used ONLY for the charging and discharging of Ni-MH battery packs. Charging other battery types using the Ni-MH charge programs will damage the battery or the charger.

6 LITHIUM STORAGE CHARGING

If no parameters are flashing, you can press the **Down (-) Button** or **Up (+) Button** to If you don't plan on using your battery for a long time it is best to charge (or discharge) the battery to its optimal storage voltage and capacity. These voltage values are different for Li-Po (3.85V), Li-Fe (3.3V) and Li-Ion (3.75V) battery packs. Using Storage Charging, the charger will automatically charge or discharge (depending on the current charge level) the battery to an appropriate level.

> Press the **Battery Type/Memory Button (H)** until you reach the 7 main menus. Then press the **Battery Type/Memory Button** until you reach the PROGRAM SELECT Lithium BATT screen. Press the Select/Start Button (K) to enter this menu. • Press the Down (-) Button or Up (+) Button to DECREASE or INCREASE the Press the **Down (-) Button (I)** or **Up (+) Button (J)** to reach the STORAGE screen and set charging parameters

The charging amperage (A) can be set between 0.1 and 6.0A. Voltage (C) is dependent on the number of cells in series (B).

LiPo STORAGE 11,1V(35)

To select values other than the existing parameters:

- Press the **Select/Start Button** so the charge current value **(A)** flashes • Press the **Down (–) Button** or **Up (+) Button** to DECREASE or INCREASE the charge current value
- voltage (and # of cells in series (B)) • Press the **Select/Start Button** again to save the voltage value
- If no parameters are flashing, you can press the Down (-) Button or Up (+) Button to select another program such as CHARGE, BALANCE, FAST CHG or DISCHARGE. To start charging, press and hold the **Select/Start Button** for 3 seconds.

9 NI-MH CHARGING

Press the **Battery Type/Memory Button (H)** until you reach the 7 main menus. Then press the **Battery Type/Memory Button** until you reach the PROGRAM SELECT NIMH BATT screen. Press the **Select/Start Button (K)** to enter this menu.

• Press the **Down (–) Button** or **Up (+) Button** to DECREASE or INCREASE the • Press the Select/Start Button again to save the value and the voltage value (C) Press the Down (-) Button (I) or Up (+) Button (J) to reach the NiMH CHARGE screen and set charging parameters. The charging amperage (A) can be set between

• Press the Select/Start Button again to save the value

CURRENT

NiMH CHARGE Man

To select a value other than the existing parameter • Press the **Select/Start Button** so the charge current value **(A)** flashes

charge current value

If no parameters are flashing, you can press the **Down (-) Button** or **Increase**

Button to select another program such as DISCHARGE or CYCLE. To start charging, press and hold the **Select/Start Button** for 3 seconds.

NI-MH DISCHARGING

A battery pack's capacity can be verified by discharging the pack to its minimum voltage level and measuring the current as the pack is discharged.

0.1A+A

Press the **Battery Type/Memory Button (H)** until you reach the 7 main menus. Then press the **Battery Type/Memory Button** until you reach the PROGRAM SELECT NIMH BATT screen. Press the **Select/Start Button (K)** to enter this menu. Press the **Down (–) Button (I)** or **Up (+) Button (J)** to reach the NiMH

DISCHARGE screen and set discharging parameters. The discharging amperage (A) can be set between 0.1 and 2.0A. The discharge level (B) can be set for AUTO or from 0.1 to 25.0V.

> NiMH DISCHARGE A+0.1A AUTO+B

To select values other than the existing parameters • Press the **Select/Start Button** so the discharge current value **(A)** flashes

• Press the **Down (–) Button** or **Up (+) Button** to DECREASE or INCREASE the

• Press the **Select/Start Button** again to save the value and the voltage value **(B)**

• Press the **Down (–) Button** or **Up (+) Button** to DECREASE or INCREASE the voltage • Press the Select/Start Button again to save the voltage value

If no parameters are flashing, you can press the **Down (-) Button** or **Increase** Button to select another program such as CHARGE or CYCLE. To start discharging, press and hold the **Select/Start Button** for 3 seconds.

NI-MH CYCLE CHARGING

The battery can be put through a series of charge/discharge cycles using this program. Cycling Ni-MH batteries can increase capacity and rejuvenate neglected batteries. Discharge capacity and average battery voltage help you compare batteries

• Press the **Down (–) Button** or **Up (+) Button** to set the cycle type as

Press the **Battery Type/Memory Button (H)** until you reach the 7 main menus. Then press the **Battery Type/Memory Button** until you reach the PROGRAM SELECT NIMH BATT screen. Press the **Select/Start Button (K)** to enter this menu. Press the **Down (–) Button (I)** or **Up (+) Button (J)** to reach the NiMH CYCLE screen and set charge/discharge cycle count parameters.

> NiMH CYCLE A+DCHG>CHG

To select values other than the existing parameters

CHG>DCHG or DCHG>CHG • Press the Select/Start Button again to save your choice and the number of

• Press the **Down (–) Button** or **Up (+) Button** to DECREASE or INCREASE the cycle count between 1 and 5

Button to select another program such as CHARGE or DISCHARGE

LITHIUM BATTERIES

Press the **Battery Type/Memory Button (H)** to change among the 7 main menu screens and go to the PROGRAM SELECT Lithium BATT screen. Press the **Select/Start Button (K)** to enter this menu. This is the menu in which you set the standard Lithium battery charge The Lithium battery type (Li-Po, Li-Ion or Li-Fe) chosen at USER SET setup shows on this

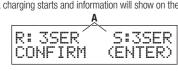
screen. Change Lithium battery type as needed in the USER SET menu (Li V. TYPE screen).

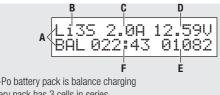
Change other Lithium battery settings as needed in the USER SET menu. Refer to the

PROGRAM SELECT USER SET section. LiPo CHARGE 22.2V(6S) 4.6A

Press the **Down (-) Button (I)** or **Up (+) Button (J)** to go to one of the control screens (CHARGE, BALANCE, FAST CHG, STORAGE or DISCHARGE) to do what your battery needs. Correctly connect your lithium battery to the charger (charging connector first and balancing connector second). Press the **Select/Start Button (K)** and adjust charging parameters as needed. Press and hold the **Select/Start Button** (approximately 3 seconds) until the screen changes to start the battery check/charge sequence. When the charge cycle starts, the charger compares the battery to charger settings. The screen will show battery and your

If the information after R: (charger) and S: (settings) (A) does not match, press the **Battery Type/Memory Button** and change the lithium battery charging parameters as needed. If the R: information matches S:, press the **Select/Start Button** to confirm. After confirmation, charging starts and information will show on the LCD screen.





E. Present charge level of the battery is 1082mAh **F.** Time elapsed since the charge process started is 22:43 (22 minutes and 43 seconds) During charging, the **Down (-) Button** can be pressed to show several parameter

complete (if buzzer is set to ON).

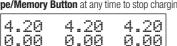
A. A Li-Po battery pack is balance charging **B.** Battery pack has 3 cells in series C. Charging rate is 2.0A (2000mAh) **D.** Voltage being applied to the battery is currently 12.59V

messages on the LCD screen including: End Voltage, Capacity Cut-off, Safety Timer setting, Temperature Cut-off, External Temperature and Input Power Voltage, Press the **Up (+) Button** to see charge voltages for each cell and the **Down (-) Button** to return to the Charge Monitor screen. To change the charging rate during charging, press the Select/Start Button, then increase or decrease the rate using the Down (-) Button and **Up (+) Button**. The charger signals when the charging (or discharging) process is

Press the **Battery Type/Memory Button** at any time to stop charging (or discharging).

4.20 4.20 4.20 0.00 0.00 0.00

LiPo BATT



1 LITHIUM BALANCING CHARGING This program menu is specifically designed for the balanced charging of Lithium To select values other than the existing parameters

CAUTION: If at any time during the charge process the battery pack(s) become hot or begin to puff disconnect the battery immediately and discontinue the charge process as batteries can cause fire, collateral damage and injuries.

SELECT Lithium BATT screen. Press the **Select/Start Button (K)** to enter this menu.

• Press the **Down (–) Button** or **Up (+) Button** to DECREASE or INCREASE the

CAUTION: Using a charge rate that is not compatible with the battery capacity may result in damage or malfunction of the charger or battery.

cell in the battery pack is monitored and charged to the same capacity and voltage levels, ensuring the optimum performance of the pack. Balance charging requires a battery with a balance adapter connector and a balance adapter board that has been designed for your charger and your battery.

22,20(65)

Press the **Battery Type/Memory Button (H)** until you reach the 7 main menus. Then press the **Battery Type/Memory Button** until you reach the PROGRAM SELECT Lithium BATT screen. Press the **Select/Start Button (K)** to enter this menu. Press the **Down (–) Button (I)** or **Up (+) Button (J)** to reach the BALANCE screen and • Press the **Select/Start Button** again to save the voltage value set charging parameters. The charging amperage (A) can be set between 0.1 and 6.0A. If no parameters are flashing, you can press the **Down (–) Button** or **Up (+) Button** Voltage (C) is dependent on the number of cells in series (B).

LiPo BALANCE

voltage (and # of cells in series (B))

batteries, including Li-Po, Li-Fe and Li-Ion battery packs. In balance charging, each

• Press the **Select/Start Button** so the charge current value **(A)** flashes • Press the **Down (-) Button** or **Up (+) Button** to DECREASE or INCREASE the

Press the Select/Start Button so the charge current value (A) flashes

• Press the **Select/Start Button** again to save the voltage value

• Press the **Select/Start Button** again to save the value and the voltage value **(C)**

• Press the **Down (-) Button** or **Up (+) Button** to DECREASE or INCREASE the

select another program such as BALANCE, FAST CHG, STORAGE or DISCHARGE.

To start charging, press and hold the **Select/Start Button** for 3 seconds.

charge current value • Press the **Select/Start Button** again to save the value and the voltage value **(C)**

• Press the **Down (-) Button** or **Up (+) Button** to DECREASE or INCREASE the voltage (and # of cells in series (B))

to select another program such as CHARGE, FAST CHG, STORAGE or DISCHARGE.

To start charging, press and hold the **Select/Start Button** for 3 seconds.

LITHIUM DISCHARGING

A battery pack's capacity can be verified by discharging the pack to its minimum voltage level and measuring the current as the pack is discharged. Press the **Battery Type/Memory Button (H)** until you reach the 7 main menus. Then press the **Battery Type/Memory Button** until you reach the PROGRAM

screen and set discharging parameters The discharging amperage (A) can be set between 0.1 and 2.0A. Voltage (C) is dependent on the number of cells in series (B)

Press the **Down (-) Button (I)** or **Up (+) Button (J)** to reach the DISCHARGE

LiPo DISCHARGE 18,0V(3S) To select values other than the existing parameters

• Press the Select/Start Button so the discharge current value (A) flashes

discharge current value SELECT Lithium BATT screen. Press the **Select/Start Button (K)** to enter this menu.

• Press the **Select/Start Button** again to save the value and the voltage value **(C)**

> • Press the **Select/Start Button** again to save the voltage value If no parameters are flashing, you can press the Down (-) Button or Up (+) Button to select another program such as CHARGE, BALANCE, FAST CHG or STORAGE.

• Press the **Down (–) Button** or **Up (+) Button** to DECREASE or INCREASE the

• Press the **Down (–) Button** or **Up (+) Button** to DECREASE or INCREASE the voltage (and # of cells in series (B))

To start discharging, press and hold the **Select/Start Button** for 3 seconds.

for the best run time and powe

Press the Select/Start Button so the cycle type (A) flashes

cycles (B) flashes

• Press the **Select/Start Button** again to save the cycle count value If no parameters are flashing, you can press the **Down (–) Button** or **Increase**

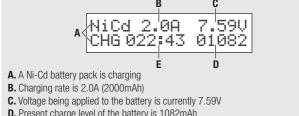
To start cycling, press and hold the Select/Start Button for 3 seconds

12 NICKEL-CADMIUM (NI-CD) BATTERIES

Refer to the PROGRAM SELECT USER SET section.

Press the **Battery Type/Memory Button (H)** to change among the 7 main menu screens and go to the PROGRAM SELECT Ni-Cd BATT screen. Press the **Select/** Start Button (K) to enter this menu. This is the menu in which you set the standard Ni-Cd battery charge parameters.

Press the **Down (–) Button (I)** or **Up (+) Button (J)** to go to one of the control screens (CHARGE, DISCHARGE or CYCLE) to do what your battery needs. Correctly connect your Ni-Cd battery to the charger. Press the **Select/Start Button (K)** and adjust charging parameters as needed. Press and hold the **Select/Start Button** (approximately 3 seconds) until the screen changes to start the battery check/charge sequence. After confirmation, charging starts and information will show on the LCD



E. Time elapsed since the charge process started is 22:43

During charging, the **Down (-) Button** or **Up (+) Button** can be pressed to show several parameter messages on the LCD screen including: Ni-Cd Sensitivity, Capacity Cut-off, Safety Timer setting, Temperature Cut-off, External Temperature and Input Power Voltage. The charger signals when the charging (or discharging) process is complete (if Buzzer is set to ON).

Press the **Battery Type/Memory Button** at any time to stop charging (or discharging). SAVE DATA

CAUTION: The Ni-Cd charge program menus are to be used ONLY for the charging and discharging of Ni-Cd battery packs. Charging other battery types using the Ni-Cd charge programs will damage the battery or the charger.

NI-CD CHARGING

Press the **Battery Type/Memory Button (H)** until you reach the 7 main menus. Then press the **Battery Type/Memory Button** until you reach the PROGRAM SELECT NiCd BATT screen. Press the **Select/Start Button (K)** to enter this menu. Press the **Down (–) Button (I)** or **Up (+) Button (J)** to reach the NiCd CHARGE screen and set charging parameters. The charging amperage (A) can be set between 0.1 and 6.0A.

NiCd CHARGE Man CURRENT Ø.1∏+A

NI-CD DISCHARGING

NI-CD CYCLE CHARGING

for the best run time and power.

supplied by the battery manufacturer.

17 PB CHARGING

A battery pack's capacity can be verified by discharging the pack to its minimum voltage level and measuring the current as the pack is discharged Press the **Battery Type/Memory Button (H)** until you reach the 7 main menus. Then press the **Battery Type/Memory Button** until you reach the PROGRAM SELECT NICd BATT screen. Press the **Select/Start Button (K)** to enter this menu. Press the **Down (-) Button (I)** or **Up (+) Button (J)** to reach the NiCd DISCHARGE screen and set discharging parameters. The discharging amperage (A) can be set between 0.1 and 2.0A. The discharge level (B) can be set for AUTO or

> NiCd DISCHARGE AUTO+B

The battery can be put through a series of charge/discharge cycles using this

program. Cycling Ni-Cd batteries can increase capacity and rejuvenate neglected

Press the Battery Type/Memory Button (H) until you reach the 7 main menus.

SELECT NICO BATT screen. Press the **Select/Start Button (K)** to enter this menu.

Press the **Battery Type/Memory Button (H)** to change among the 7 main menu screens

and go to the PROGRAM SELECT Ph BATT screen. Press the Select/Start Button (K) to en-

ter this menu. This is the menu in which you set the standard Pb battery charge parameters.

Pb BATT

The nature of a Lead-Acid or Sealed-Lead-Acid battery is very different from that of **B.** Battery pack has 6 cells in series

other batteries relative to their capacities. Furthermore, lead-acid batteries can't be D. Voltage being applied to the battery is currently 12.39V

CAUTION: The Pb charge program menus are to be used ONLY for the charging and discharging of Pb battery packs. Charging other battery types using the Pb charge programs will damage the battery or the charger.

screen and set charging parameters. The charging amperage (A) can be set between

• Press the Select/Start Button again to save the value and the voltage value (C)

PROGRAM SELECT

Lithium, Ni-MH or Ni-Cd batteries. The output current of a Pb battery is lower than

charged at a level greater than 1/10 their capacity. For example, a 5000mAh lead

acid battery can't be charged at a rate greater than 0.5A. For more details on the

charge and discharge capabilities of your battery, please refer to the charging data

Press the **Down (–) Button (I)** or **Up (+) Button (J)** to go to one of the control

confirmation, charging starts and information will show on the LCD screen.

Press the **Battery Type/Memory Button (H)** until you reach the 7 main menus.

Then press the **Battery Type/Memory Button** until you reach the PROGRAM

SELECT Pb BATT screen. Press the **Select/Start Button (K)** to enter this menu.

Press the **Down (–) Button (I)** or **Up (+) Button (J)** to reach the Pb CHARGE

be set between 2.0 (for 1P batteries) to 20.0V (for 10P batteries).

Pb CHARGE

0.1 and 6.0A. Voltage (C) is dependent on the number of cells in series (B) and can

2,0V(1P)+B

Then press the **Battery Type/Memory Button** until you reach the PROGRAM

Press the **Down (–) Button (I)** or **Up (+) Button (J)** to reach the NiCd CYCLE

NiCd CYCLE

a+DCHG>CHG

16 LEAD-ACID/SEALED-LEAD-ACID (PB) BATTERIES

screen and set charge/discharge cycle count parameters.

batteries. Discharge capacity and average battery voltage help you compare batteries

To select values other than the existing parameters:

To select values other than the existing parameters:

CHG>DCHG or DCHG>CHG

cycle count between 1 and 5

A. A Pb battery pack is charging

C. Charging rate is 4.0A (4000mAh

E. Present charge level of the battery is 1082mAh

To select values other than the existing parameters

voltage (and # of cells in series (B))

charge current value

Press the Select/Start Button so the charge current value (A) flashes

• Press the **Down (–) Button** or **Up (+) Button** to DECREASE or INCREASE the

• Press the **Down (–) Button** or **Up (+) Button** to DECREASE or INCREASE the

If no parameters are flashing, you can press the **Down (-) Button** or **Increase**

To start charging, press and hold the Select/Start Button for 3 seconds.

Press the **Select/Start Button** again to save the voltage value

Button to select another program such as DISCHARGE.

F. Time elapsed since the charge process started is 22:43

cycles (B) flashes

Press the Select/Start Button so the cycle type (A) flashes

• Press the **Down (–) Button** or **Up (+) Button** to set the cycle type as

Press the **Select/Start Button** again to save the cycle count value

To start cycling, press and hold the **Select/Start Button** for 3 seconds.

Button to select another program such as CHARGE or DISCHARGE.

Press the **Select/Start Button** again to save your choice and the number of

• Press the **Down (-) Button** or **Up (+) Button** to DECREASE or INCREASE the

If no parameters are flashing, you can press the Down (-) Button or Increase

∤Pb-6 4¦0A12,39U

During charging, the **Down (–) Button** or **Up (+) Button** can be pressed to show several

parameter messages on the LCD screen including: End Voltage, Capacity Cut-off, Safety

CHG 022;43 01.082

To select a value other than the existing parameter:

· Press the Select/Start Button again to save the value

Button to select another program such as DISCHARGE or CYCLE.

To start charging, press and hold the Select/Start Button for 3 seconds.

charge current value

• Press the Select/Start Button so the discharge current value (A) flashes • Press the **Down (-) Button** or **Up (+) Button** to DECREASE or INCREASE the discharge current value

• Press the **Select/Start Button** so the charge current value **(A)** flashes

• Press the **Down (–) Button** or **Up (+) Button** to DECREASE or INCREASE the

If no parameters are flashing, you can press the **Down (-) Button** or **Increase**

• Press the Select/Start Button again to save the value and the voltage value (B) • Press the **Down (-) Button** or **Up (+) Button** to DECREASE or INCREASE the

voltage Press the **Select/Start Button** again to save the voltage value. If no parameters are flashing, you can press the **Down (-) Button** or **Increase**

Button to select another program such as CHARGE or CYCLE. To start discharging, press and hold the **Select/Start Button** for 3 seconds.

PB DISCHARGING

A battery pack's capacity can be verified by discharging the pack to its minimum voltage level and measuring the current as the pack is discharged. Press the **Battery Type/Memory Button (H)** until you reach the 7 main menus.

Then press the **Battery Type/Memory Button** until you reach the PROGRAM SELECT Pb BATT screen. Press the **Select/Start Button (K)** to enter this menu. Press the **Down (–) Button (I)** or **Up (+) Button (J)** to reach the Pb DISCHARGE screen and set discharging parameters. The discharging amperage (A) can be set between 0.1 and 2.0A. Voltage (C) is dependent on the number of cells in series (B) and can be set between 2.0 (for 1P batteries) to 20.0V (for 10P batteries).

Pb DISCHARGE 2,00(1P)+B To select values other than the existing parameters:

• Press the **Select/Start Button** so the discharge current value (A) flashes • Press the **Down (–) Button** or **Up (+) Button** to DECREASE or INCREASE the Use this menu to set a time limit for charging a battery. When a charge cycle is

discharge current value • Press the **Select/Start Button** again to save the value and the voltage value **(C)**

process once this time limit has been reached to avoid damage caused by overcharging the battery. This time value can be set between 10 and 720 minutes. Press the Down (-) Button or Up (+) Button to DECREASE or INCREASE the voltage (and # of cells in series (B)) To select values other than the default parameters:

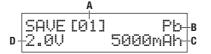
 Press the Select/Start Button again to save the voltage value If no parameters are flashing, you can press the **Down (-) Button** or **Increase Button** to select another program such as CHARGE.

To start discharging, press and hold the **Select/Start Button** for 3 seconds.



Press the **Battery Type/Memory Button (H)** to change among the 7 main menu screens and go to the PROGRAM SELECT SAVE DATA screen. Use this menu to save a battery profile. To reduce the time required to initiate a charging or discharging cycle on a battery you regularly use, this charger has been designed with the capability of storing up

• Press the **Select/Start Button** to set the CHARGE parameters. Refer to the batto 5 battery profiles that can be quickly accessed and run using the Load Data menu.



Press the Select/Start Button (K) to enter this menu

 Press the Down (-) Button (I) or Up (+) Button (J) to select a battery profile (A) (1 through 5

• Press the **Select/Start Button** to save the battery profile value so the battery type (B) flashes

• Press the **Down (–) Button** or **Up (+) Button** to select a battery type • Press the **Select/Start Button** to save the battery type and the voltage value **(D)** flashes **Type/Memory Button** to go to other options.

• Press the **Down (–) Button** or **Up (+) Button** to DECREASE or INCREASE the voltage

. Press the Select/Start Button to save the value and the battery capacity (C) flashes • Press the **Down (-) Button** or **Up (+) Button** to DECREASE or INCREASE the battery capacity

• Press the **Select/Start Button** to save the value and the battery profile value flashes Press and hold the Select/Start Button for at 3 seconds until the screen changes to the CHARGE menu

tery type parameter setting instructions • Press the Down (-) Button or Up (+) Button to go to and set other

parameters (BALANCE CHARGE, DISCHARGE, etc.) After setting all parameters, press and hold the Select/Start Button for 3 seconds

until the screen changes SAVE...

After the battery profile has been saved, the charger will return to the PROGRAI SELECT SAVE DATA screen. Enter the Save Data menu and create more battery profiles or press the Battery

20 LOAD DATA



Press the **Battery Type/Memory Button (H)** to change among the 7 main menu screens and go to the PROGRAM SELECT LOAD DATA screen. Use this menu to load

> LOAD [0]] LiPo 5000mAh

Press the Select/Start Button (K) and the battery profile value (A) flashes the battery profile value

 Press and hold the Select/Start Button until the battery charging function screen shows

• Press the **Down (-) Button** or **Up (+) Button** to go to the charging function you

Press and hold the **Select/Start Button** to start the chosen charging function

PROGRAM SELECT USER SET



Press the **Battery Type/Memory Button (H)** to change among the 7 main menu screens and go to the USER SET PROGRAM-> screen. Use this menu to set up programMin. voltage (Volts per cell) ming as desired for charging your batteries. USER SET programming lets you change from default settings for "behind the scenes" operating parameters for this charger. At the USER SET PROGRAM-> screen, press the Select/Start Button (K) to enter the menu. Press the Down (-) Button (I) or Up (+) Button (J) to change between sub-menu screens. Press the **Battery Type/Memory Button** to return to the main menu screen.

a LITHIUM BATTERY TYPE

Use this menu to choose lithium battery type: Li-Po, Li-lo or Li-Fe, which shows on other Lithium battery screens.

> LiPo-V. Type

 Press the Select/Start Button so the voltage value (A) flashes • Press the **Down (–) Button** or **Up (+) Button** to change the voltage value (changing voltage value changes lithium battery type): 3.7V for Li-Po, 3.6V for

Press the **Select/Start Button** to save your selection

NI-MH SENSITIVITY (PEAK VOLTAGE)

NiMH Sensitivity D.Peak Default+A

Timer setting, Temperature Cut-off, External Temperature and Input Power Voltage. To screens (CHARGE or DISCHARGE) to do what your battery needs. Correctly connect change the charging rate during charging, press the **Select/Start Button**, then increase Use this menu to adjust the peak voltage level (D.Peak) at which charging stops your Pb battery to the charger. Press the Select/Start Button (K) and adjust charg- or decrease the rate using the Down (-) Button. The charger signals for a Ni-MH battery pack. The D.Peak value is adjustable between 5mV/Cell and ing parameters as needed. Press and hold the **Select/Start Button** (approximately 3 when the charging (or discharging) process is complete (if Buzzer is set to ON). 20mV/Cell. Generally, 8mV/Cell is a good choice for Ni-MH batteries. When this seconds) until the screen changes to start the battery check/charge sequence. After

Press the **Battery Type/Memory Button** at any time to stop charging (or discharging). value is set too high, a battery may be over-charged. When this value is set too low, the charger will not charge a battery to full capacity.

To select a value other than the default parameter:

Press the Select/Start Button so the D.Peak value (A) flashes

• Press the **Down (–) Button** or **Up (+) Button** to DECREASE or INCREASE the D.peak value

• Press the Select/Start Button again to save this value

■ BATTERY CUTOFF TEMPERATURE Temp Select Temp Cut-Off 80C+A

Use this menu to set a cutoff temperature that can prevent damage to the battery by stopping the charging process if the battery temperature reaches that limit. The charger can be used in conjunction with a battery mounted temperature sensor (sold separately, DYN5033) connected to the **Temperature Sensor Port (D)** to monitor the temperature of the battery during the charging process. The nperature can be set between 20–80° C (68–176° F).

To select a value other than the default parameter:

• Press the **Select/Start Button (K)** so the temperature value **(A)** flashes Press the Down (-) Button or Up (+) Button to DECREASE or INCREASE the temperature value

· Press the Select/Start Button again to save this value

I LITHIUM BATTERY CHECK TIME

iPo/LiIo/LiFe CHK Time 10min⊣a

Use this menu to set a time limit on a lithium battery check. The battery charger can

automatically identify the number of series cells in a lithium battery pack. Normally this checking process is very quick; however, it will not work properly if the battery pack is damaged or over-discharged. Very large capacity packs will also take longer to check. To prevent errors, the charger default is to spend up to 10 minutes to identify the number of cells. Time limit can be between 5 and 60 minutes.

To select a value other than the default parameter:

• Press the Select/Start Button so the time value (A) flashes

• Press the **Down (–) Button** or **Up (+) Button** to DECREASE or INCREASE the

Press the Select/Start Button again to save this value

NI-CD SENSITIVITY (PEAK VOLTAGE)

NiCd Sensitivity D.Peak Default+A

Use this menu to adjust peak voltage level (D.Peak) at which the charging stops for a Ni-Cd battery pack. The D.Peak value is adjustable between 5mV/Cell and 20mV/Cell. Generally, 10mV/Cell is a good choice for Ni-Cd batteries. When this value is set too high, the battery may be over-charged. When this the value is set too low, the charger will not charge a battery to full capacity.

To select a value other than the default parameter. • Press the **Select/Start Button** so the D.Peak value **(A)** flashes

• Press the **Down (–) Button** or **Up (+) Button** to DECREASE or INCREASE the D.Peak value

• Press the **Select/Start Button** again to save this value

▼ WASTE (BATTERY COOL-DOWN) TIME

Waste Time CHG>DCHG lmin⊣a

Use this menu to set waste time during each step in a cycle. When a Ni-MH or Ni-Cd battery is cycled (charged, discharged and charged again) it will get hot, therefore it is necessary to set a waste time interval during each step of the process to make sure the battery and charger are completely cooled before moving on to the next part of the cycle. Default time is 1 minute, but this can be set between 0 and 60 minutes.

To select a value other than the default parameter. Press the Select/Start Button so the time value (A) flashes

• Press the **Down (–) Button** or **Up (+) Button** to DECREASE or INCREASE the time value

• Press the Select/Start Button again to save this value

BATTERY CAPACITY CUTOFF

Capacity Cut-Off 5000mAh+B

Use this menu to set a capacity limit on when the charger stops charging a battery. When a charge cycle starts, the charger records the battery capacity. When the capacity cutoff function is set at ON, the charger will stop charging at the capacity limit to prevent battery damage. Capacity can be adjusted between 10 and 50,000mAh

To select values other than the default parameters

• Press the **Select/Start Button** again to save this value

INPUT POWER LOW VOLTAGE CUTOFF

• Press the **Select/Start Button** so ON or OFF (A) flashes Press the **Down (-) Button** or **Up (+) Button** to turn the capacity cutoff ON or OFF

• Press the **Select/Start Button** again to save this setting and the capacity value (B) flashes

• Press the **Down (–) Button** or **Up (+) Button** to DECREASE or INCREASE capacity value

Input Power Low Cut-Off 11.0V+A Use this menu to set the input voltage limit so an alarm will sound if the voltage

goes below the cutoff value. The voltage alarm value can be set from 10.0 to

To select a value other than the default parameter:

• Press the **Select/Start Button** so the voltage value **(A)** flashes • Press the **Down (–) Button** or **Up (+) Button** to DECREASE or INCREASE the

voltage value

Press the Select/Start Button again to save this value

22 USB DEVICE CHARGING The charger has the capability to charge a smartphone, music player or any USB-compatible device with the 2.1A USB Power Output Port (E). To use the charging

SAFETY TIMER

(B) flashes

time value

Safety Timer

• Press the **Select/Start Button** so ON or OFF **(A)** flashes

• Press the **Select/Start Button** again to save this value

Key Beer

Buzzer

To select values other than the default parameters:

BEEP AND BUZZER SOUND CONTROL

started, a clock inside the charger will begin recording the elapsed charge time. If

the safety timer function has been turned ON, the charger will stop the charging

• Press the **Down (–) Button** or **Up (+) Button** to turn the safety timer ON or OFF

Press the Select/Start Button again to save this setting and the time value

• Press the **Down (–) Button** or **Up (+) Button** to DECREASE or INCREASE the

Use this menu to set the key beep and charger alarm buzzer at ON or OFF as

• Press the **Down (–) Button** or **Up (+) Button** to set the key beep at ON or OFF

• Press the Select/Start Button again to save this setting and ON or OFF (B) flashes

• Press the **Down (–) Button** or **Up (+) Button** to set the buzzer at ON or OFF

charging is complete or if there is cause for alarm during charging.

• Press the **Select/Start Button** so ON or OFF **(A)** flashes

Press the Select/Start Button again to save this value

needed. We recommend that you keep the alarm ON so the alarm will sound when

180min⊣_B

Oh⊹⊢a

ON⊣B

function, simply connect a compatible charging device or cord into the charge port while the charger is powered ON. The charger provides up to 2.1A current at 5V DC.

service center for assistance.

Standard voltage (Volts per cell)

Max. voltage (Volts per cell)

LCD Screen Warning and Error messages shown below. During charger operation, circuits monitor battery and charger functions. If the following messages show on the • Press the **Down (-) Button (I)** or **Up (+) Button (J)** to DECREASE or INCREASE charger's LCD screen, make the recommended responses. If the message continues after you respond as recommended, contact your nearest Horizon Hobby customer

or vice certici for accidiance.			
REVERSE POLARITY	Make sure each connection polarity is correct between the power source and the charger, then between the charger and the battery		
CONNECTION BREAK	Make sure the power connections are correct for charging		
SHORT ERR	Make sure there are no short circuits between the poles of the battery or the battery and the charger. Replace damaged wires.		
INPUT VOL ERR	Input voltage to the charger fell below the default or adjusted input voltage setting. Make sure the power source for the charger provides correct input voltage.		
VOL SELECT ERR	Incorrect setting for cell in series count (pack voltage) of a lithium battery. Make charger settings match the battery pack label cell in series count specifications or replace the battery.		
BREAK DOWN	Charger electronics require repair.		
BATTERY CHECK LOW VOLTAGE	Battery voltage is lower than the value setting in the charger. Adjust settings, then make sure the battery is not damaged or replace the battery.		
BATTERY CHECK HIGH VOLTAGE	Battery voltage is higher than the value setting in the charger. Adjust settings, then make sure the battery is not damaged or replace the battery.		

3.00 2.00

3.60

4.10

DYNAMITE 5-YEAR US LIMITED CHARGER WARRANTY INFORMATION We are so confident about the quality of our chargers we offer a 5-year replacement Questions, Assistance, and Services - Your local hobby store and/or place of pur-

3.70

4.20

3.00

plan on all of our Dynamite Prophet and Passport chargers

warranty claims 5-YEAR US LIMITED WARRANTY Warranty Period - Exclusive Warranty - Horizon Hobby, LLC ("Horizon") warrants a Product Support representative. that the included Dynamite Prophet, or Passport charger ("Product") will be free from Inspection or Services - If this Product needs to be inspected or serviced and is Signed for and on behalf of:

remedy shall be that Horizon will, at its option, either (i) service, or (ii) replace, any ANY CHARGER WARRANTY CLAIM. Product determined by Horizon to be defective. Horizon reserves the right to inspect Warranty Requirements - For Warranty consideration, you must include your claims. SERVICE OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE Service or replacement decisions are at the sole discretion of Horizon. PURCHASER'S SOLE AND EXCLUSIVE REMEDY. Replacement Products are covered Non-Warranty Service - Should your service not be covered by warranty, serunder this warranty for thirty (30) days after receipt or for the remainder of the Warranty

vice will be completed and payment will be required without notification or Period of the Product which they have replaced, whichever is longer.

setup, final assembly, modification or misuse, no liability shall be assumed nor achttp://www.horizonhobby.com/content/_service-center_render-service-center. cepted for any resulting damage or injury. By the act of use, setup or assembly, the user ATTENTION: Horizon service is limited to Product compliant in the country Product immediately in new and unused condition to the place of purchase. pals). This warranty gives you specific legal rights, and you may also have other rights 60 days from notification, after which it will be discarded. which vary from state to state. Horizon reserves the right to change or modify this

warranty at any time without notice.

WARRANTY SERVICES

Li-Fe

3.30

3.60

chase cannot provide warranty support or service. Once assembly, setup or use of the EC and LVD Directive 2006/95/EC: Our 5-year replacement plan requires proof of purchase (copy of the receipt) and we Product has been started, you must contact your local distributor or Horizon directly. EN55022:2010 + AC:2011 do, reserve the right to deny replacement to any abusers of our plan. See below for This will enable Horizon to better answer your questions and service you in the event EN55024:2010 full details. Contact the appropriate Horizon Service Department for instructions on that you may need any assistance. For questions or assistance, please visit our website at www.horizonhobby.com, submit a Product Support Inquiry at https://horizonhobby. quickbase.com/db/bghj7ey8c?a=GenNewRecord, or call the toll free telephone num-

Ni-Cd

1.20

1.60

0.85

2.00

2.45

1.75

Ni-MH

1.20

1.60

1.00

defects in materials and workmanship for a period of five (5) years after the date of compliant in the country you live and use the Product in, please use the Horizon Online Service Request submission process found on our website or call Horizon to obtain a Horizon Hobby, LLC What is Not Covered - This warranty is not transferable and does not cover (i) cos- Return Merchandise Authorization (RMA) number. Pack the Product securely using a Champaign, IL USA metic damage, (ii) damage due to acts of God, accident, misuse, abuse, negligence, shipping carton. Please note that original boxes may be included, but are not designed September 12, 2013 commercial use, or due to improper use, installation, operation or maintenance, (iii) to withstand the rigors of shipping without additional protection. Ship via a carrier modification of or to any part of the Product, (iv) attempted service by anyone other that provides tracking and insurance for lost or damaged parcels, as Horizon is not This product must not be disposed of with other waste. Instead, it is the ter_render-service-center. If you do not have internet access, please contact Horizon to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off OTHER THAN THE EXPRESS WARRANTY ABOVE, HORIZON MAKES NO OTHER WARProduct Support to obtain a RMA number along with instructions for submitting your

your waste equipment for recycling, please contact your local city office, your household waste disposal service or where you purchased the product. RANTY OR REPRESENTATION, AND HEREBY DISCLAIMS ANY AND ALL IMPLIED WARproduct for service. When calling Horizon, you will be asked to provide your complete RANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF NON-name, street address, email address and phone number where you can be reached INFRINGEMENT, MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. during business hours. When sending product into Horizon, please include your RMA THE PURCHASER ACKNOWLEDGES THAT THEY ALONE HAVE DETERMINED THAT number, a list of the included items, and a brief summary of the problem. A copy of THE PRODUCT WILL SUITABLY MEET THE REQUIREMENTS OF THE PURCHASER'S your original sales receipt must be included for warranty consideration. Be sure your name, address, and RMA number are clearly written on the outside of the shipping car-Purchaser's Remedy - Horizon's sole obligation and purchaser's sole and exclusive ton. YOU MUST CONTACT THE APPROPRIATE HORIZON SERVICE DEPARTMENT FOR

any and all Product(s) involved in a warranty claim. Service or replacement decisions original sales receipt verifying the proof-of-purchase date. Provided warranty are at the sole discretion of Horizon. Proof of purchase is required for all warranty conditions have been met, your Product will be serviced or replaced free of charge.

estimate of the expense unless the expense exceeds 50% of the retail pur-Limitation of Liability - HORIZON SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT, chase cost. By submitting the item for service you are agreeing to payment of INCIDENTAL OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR the service without notification. Service estimates are available upon request. You COMMERCIAL LOSS IN ANY WAY, REGARDLESS OF WHETHER SUCH CLAIM IS BASED must include this request with your item submitted for service. Non-warranty service IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR ANY OTHER estimates will be billed a minimum of ½ hour of labor. In addition you will be billed for THEORY OF LIABILITY, EVEN IF HORIZON HAS BEEN ADVISED OF THE POSSIBILITY OF return freight. Horizon accepts money orders and cashier's checks, as well as Visa, SUCH DAMAGES. Further, in no event shall the liability of Horizon exceed the individual MasterCard, American Express, and Discover cards. By submitting any item to Horizon price of the Product on which liability is asserted. As Horizon has no control over use, for service, you are agreeing to Horizon's Terms and Conditions found on our website

accepts all resulting liability. If you as the purchaser or user are not prepared to accept of use and ownership. If received, a non-compliant Product will not be serthe liability associated with the use of the Product, purchaser is advised to return the viced. Further, the sender will be responsible for arranging return shipment of the un-serviced Product, through a carrier of the sender's choice and at Law - These terms are governed by Illinois law (without regard to conflict of law princithe sender's expense. Horizon will hold non-compliant Product for a period of

NON-US LIMITED WARRANTY

PURCHASER'S SOLE AND EXCLUSIVE REMEDY.

warranty at any time without notice

Product immediately in new and unused condition to the place of purchase.

WARRANTY SERVICES

What this Warranty Covers - Horizon Hobby, LLC ("Horizon") warrants to the original at www.horizonhobby.com, submit a Product Support Inquiry at https://horizonhobby purchaser that the product purchased (the "Product") will be free from defects in ma- quickbase.com/db/bghj7ey8c?a=GenNewRecord, or call the toll free telephone num erials and workmanship at the date of purchase What is Not Covered - This warranty is not transferable and does not cover (i) cos- a Product Support representate metic damage, (ii) damage due to acts of God, accident, misuse, abuse, negligence, Inspection or Services - If this Product needs to be inspected or serviced and is

commercial use, or due to improper use, installation, operation or maintenance, (iii) compliant in the country you live and use the Product in, please use the Horizon Online nodification of or to any part of the Product, (iv) attempted service by anyone other Service Request submission process found on our website or call Horizon to obtain a than a Horizon Hobby authorized service center, (v) Product not purchased from an Return Merchandise Authorization (RMA) number. Pack the Product securely using a authorized Horizon dealer, or (vi) Product not compliant with applicable technical regu- shipping carton. Please note that original boxes may be included, but are not designed to withstand the rigors of shipping without additional protection. Ship via a carrier than OTHER THAN THE EXPRESS WARRANTY ABOVE, HORIZON MAKES NO OTHER WAR- provides tracking and insurance for lost or damaged parcels, as Horizon is not respon-RANTY OR REPRESENTATION, AND HEREBY DISCLAIMS ANY AND ALL IMPLIED WAR-sible for merchandise until it arrives and is accepted at our facility. An Online Service RANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF NON- Request is available at http://www.horizonhobby.com/content/_service-center_ren INFRINGEMENT, MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. der-service-center. If you do not have internet access, please contact Horizon Product THE PURCHASER ACKNOWLEDGES THAT THEY ALONE HAVE DETERMINED THAT Support to obtain a RMA number along with instructions for submitting your product for THE PRODUCT WILL SUITABLY MEET THE REQUIREMENTS OF THE PURCHASER'S service. When calling Horizon, you will be asked to provide your complete name, street

that you may need any assistance. For questions or assistance, please visit our website

ber referenced in the Warranty and Service Contact Information section to speak with

address, email address and phone number where you can be reached during business Purchaser's Remedy - Horizon's sole obligation and purchaser's sole and exclusive hours. When sending product into Horizon, please include your RMA number, a list of remedy shall be that Horizon will, at its option, either (i) service, or (ii) replace, any the included items, and a brief summary of the problem. A copy of your original sales Product determined by Horizon to be defective. Horizon reserves the right to inspect receipt must be included for warranty consideration. Be sure your name, address, and any and all Product(s) involved in a warranty claim. Service or replacement decisions RMA number are clearly written on the outside of the shipping carton are at the sole discretion of Horizon. Proof of purchase is required for all warranty NOTICE: Do not ship Li-Po batteries to Horizon. If you have any issue with a claims. SERVICE OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE Li-Po battery, please contact the appropriate Horizon Product Support office. Warranty Requirements - For Warranty consideration, you must include your Limitation of Liability - HORIZON SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT, original sales receipt verifying the proof-of-purchase date. Provided warranty

IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR ANY OTHER Non-Warranty Service - Should your service not be covered by warranty THEORY OF LIABILITY, EVEN IF HORIZON HAS BEEN ADVISED OF THE POSSIBILITY OF service will be completed and payment will be required without notification SUCH DAMAGES. Further, in no event shall the liability of Horizon exceed the individual or estimate of the expense unless the expense exceeds 50% of the retail price of the Product on which liability is asserted. As Horizon has no control over use, purchase cost. By submitting the item for service you are agreeing to payment of the setup, final assembly, modification or misuse, no liability shall be assumed nor ac-service without notification. Service estimates are available upon request. You must cepted for any resulting damage or injury. By the act of use, setup or assembly, the user include this request with your item submitted for service. Non-warranty service esaccepts all resulting liability. If you as the purchaser or user are not prepared to accept timates will be billed a minimum of ½ hour of labor. In addition you will be billed for the liability associated with the use of the Product, purchaser is advised to return the return freight. Horizon accepts money orders and cashier's checks, as well as Visa. MasterCard, American Express, and Discover cards. By submitting any item to Horizon Law - These terms are governed by Illinois law (without regard to conflict of law princi- for service, you are agreeing to Horizon's Terms and Conditions found on our website pals). This warranty gives you specific legal rights, and you may also have other rights http://www.horizonhobby.com/content/_service-center_render-service-center. which vary from state to state. Horizon reserves the right to change or modify this ATTENTION: Horizon service is limited to Product compliant in the country

of use and ownership. If received, a non-compliant Product will not be serviced. Further, the sender will be responsible for arranging return shipmer Questions, Assistance, and Services - Your local hobby store and/or place of pur- of the un-serviced Product, through a carrier of the sender's choice and at chase cannot provide warranty support or service. Once assembly, setup or use of the the sender's expense. Horizon will hold non-compliant Product for a period of Product has been started, you must contact your local distributor or Horizon directly. 60 days from notification, after which it will be discarded. This will enable Horizon to better answer your questions and service you in the event

WARRANTY AND SERVICE CONTACT INFORMATION

INCIDENTAL OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR conditions have been met, your Product will be serviced or replaced free of charge.

COMMERCIAL LOSS IN ANY WAY REGARDLESS OF WHETHER SUCH CLAIM IS BASED. Service or replacement decisions are at the sole discretion of Horizon

United Ctates of America	Horizon Service Center (Repairs and Repair Requests)	servicecenter.horizonhobby.com/RequestForm/	4105 Fieldstone Rd Champaign, Illinois, 61822 USA
	Horizon Product Support (Product Technical Assistance)	www.quickbase.com/db/bghj7ey8c?a=GenNewRecord	
		888-959-2306	
	Sales	sales@horizonhobby.com	
		888-959-2306	
United Kingdom	Service/Parts/Sales: Horizon Hobby Limited	sales@horizonhobby.co.uk	Units 1–4, Ployters Rd, Staple Tye Harlow, Essex, CM18 7NS, United Kingdom
		+44 (0) 1279 641 097	
Germany -	Horizon Technischer Service	service@horizonhobby.de	Christian-Junge-Straße 1 25337 Elmshorn, Germany
	Sales: Horizon Hobby GmbH	+49 (0) 4121 2655 100	
France	Service/Parts/Sales: Horizon Hobby SAS	infofrance@horizonhobby.com	11 Rue Georges Charpak
		+33 (0) 1 60 18 34 90	77127 Lieusaint, France
China	Service/Parts/Sales: Horizon Hobby – China	info@horizonhobby.com.cn	Room 506, No. 97 Changshou Rd.
		+86 (021) 5180 9868	Shanghai, China 200060
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FCC INFORMATION

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications

COMPLIANCE INFORMATION FOR THE EUROPEAN UNION

Declaration of Conformity (in accordance with ISO/IEC 17050-1)

No. HH2013091205 Product(s): DYN Prophet Precept 80W LCD AC/DC Battery Charger

Item Number(s): DYNC2015EU, DYNC2015UK The object of declaration described above is in conformity with the requirements of the specifications listed below, following the provisions of the EMC Directive 2004/108/

EN61000-3-2:2006+A1:2009+A2:2009

ber referenced in the Warranty and Service Contact Information section to speak with EN60335-1: 2002+A11:2004+A1:2004+A12:2006+A2:2006+A13:2008+A14:2010+A15:2011

EN60335-2-29:2004+A2:2010

Robert Peak

Chief Financial Officer, Horizon Hobby, LLC

than a Horizon Hobby authorized service center, (v) Product not purchased from an responsible for merchandise until it arrives and is accepted at our facility. An Online authorized Horizon dealer, or (vi) Product not compliant with applicable technical reguService Request is available at http://www.horizonhobby.com/content/_service-cencollections point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help

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